This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

```
 1                                          SEQUENCE LISTING
 2
 3     (1)    General Information
 4
 5     (i)APPLICANT:ELAZAR RABBANI
 6     JANNIS G. STAVRIANOPOULOS
 7     JAMES J. DONEGAN
 8     DAKAI LIU
 9     NORMAN E. KELKER
10     DEAN L. ENGELHARDT
11
12     (ii)TITLE OF INVENTION:NOVEL PROPERTY EFFECTING
13     AND/OR  PROPERTY EXHIBITING COMPOSITIONS FOR
14     THERAPEUTIC AND DIAGNOSTIC USE
15
16     (iii)NUMBER OF SEQUENCES: 42
17
18     (iv)CORRESPONDENCE ADDRESS:
19     (A)ADDRESSEE:ENZO THERAPEUTICS, INC.
20     (B)STREET:C/O ENZO BIOCHEM, INC.
21     527 MADISON AVENUE,
22     9TH FLOOR
23     (C)CITY:NEW YORK
24     (D)STATE:NY
25     (E)COUNTRY:USA
26     (F)ZIP:10022
27
28     (v)COMPUTER READABLE FORM:
29     (A)MEDIUM TYPE: 3.5" Micro Floppy Disk.  1.44 KB
30     STORAGE
31     (B)COMPUTER:IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES
32     (C)OPERATING SYSTEM:PC-DOS
33     (D)SOFTWARE:  MICROSOFT WORD ___ - ASCII TEXT (DOS)
34
35     (vi)CURRENT APPLICATION DATA:
36     (A)APPLICATION NUMBER:   US 08/978,634
37     (B)FILING DATE:25-NOVEMBER-1997
38     (C)CLASSIFICATION:Not Yet Known
39
40     (viii)ATTORNEY/AGENT INFORMATION:
41     (A)NAME:FEDUS, RONALD C.
42     (B)REGISTRATION NUMBER: 32,567
43     (C)REFERENCE/DOCKET NUMBER:ENZ-53(D2)
44
45     (ix)TELECOMUNICATION INFORMATION:
46     (A)TELEPHONE:(212) 583-0100
```

--> *oC* (beside line 38)

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RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/978,634*

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INPUT SET: S29657.raw

```
47   (B)TELEFAX:(212) 583-0150
48
49   (2) INFORMATION FOR SEQ ID NO:1:
50
51   (i) SEQUENCE CHARACTERISTICS:
52   (A) LENGTH:20 amino acids
53   (B) TYPE:amino acid
54   (C) STRANDEDNESS:single
55   (D) TOPOLOGY:linear
56
57   (ii) MOLECULE TYPE: peptide
58
59   (iii) HYPOTHETICAL: NO
60
61   (ix) SEQUENCE DESCRIPTION:SEQ ID NO:1:
62
63    Gly Phe Phe Gly Ala Ile Ala Gly  Phe Leu Glu Gly  Gly  Trp Glu  Gly
64         1             5                  10             15
65
66   Met Ile Ala Gly
67                           20
68
69
70   (2) INFORMATION FOR SEQ ID NO:2:
71
72   (i) SEQUENCE CHARACTERISTICS:
73   (A) LENGTH:20 base pairs
74   (B) TYPE:nucleic acid
75   (C) STRANDEDNESS:double
76   (D) TOPOLOGY:linear
77
78   (ii) MOLECULE TYPE: DNA (genomic)
79
80   (iii) HYPOTHETICAL: NO
81
82   (ix) SEQUENCE DESCRIPTION:SEQ ID NO:2:
83
84   TGCTCTCTAA    GGGTCTACTC    20
85
86
87   (2) INFORMATION FOR SEQ ID NO:3:
88
89   (i) SEQUENCE CHARACTERISTICS:
90   (A) LENGTH:15 base pairs
91   (B) TYPE:nucleic acid
92   (C) STRANDEDNESS:double
93   (D) TOPOLOGY:linear
94
95   (ii) MOLECULE TYPE: DNA (genomic)
96
97   (iii) HYPOTHETICAL: NO
98
99   (ix) SEQUENCE DESCRIPTION:SEQ ID NO:3:
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100
101    CTCTAAGGTA    AATAT        15
102
103
104    (2) INFORMATION FOR SEQ ID NO:4:
105
106    (i) SEQUENCE CHARACTERISTICS:
107    (A) LENGTH:16 base pairs
108    (B) TYPE:nucleic acid
109    (C) STRANDEDNESS:double
110    (D) TOPOLOGY:linear
111
112    (ii) MOLECULE TYPE: DNA (genomic)
113
114    (iii) HYPOTHETICAL: NO
115
116    (ix) SEQUENCE DESCRIPTION:SEQ ID NO:4:
117
118    TGTATTTTAG    ATTCAA        16
119
120
121    (2) INFORMATION FOR SEQ ID NO:5:
122
123    (i) SEQUENCE CHARACTERISTICS:
124    (A) LENGTH:19 base pairs
125    (B) TYPE:nucleic acid
126    (C) STRANDEDNESS:double
127    (D) TOPOLOGY:linear
128
129    (ii) MOLECULE TYPE: DNA (genomic)
130
131    (iii) HYPOTHETICAL: YES
132
133    (ix) SEQUENCE DESCRIPTION:SEQ ID NO:5:
134
135    TGCTCTCTAA    GGTAAATAT        19
136
137
138    (2) INFORMATION FOR SEQ ID NO:6:
139
140    (i) SEQUENCE CHARACTERISTICS:
141    (A) LENGTH:19 base pairs
142    (B) TYPE:nucleic acid
143    (C) STRANDEDNESS:double
144    (D) TOPOLOGY:linear
145
146    (ii) MOLECULE TYPE: DNA (genomic)
147
148    (iii) HYPOTHETICAL: YES
149
150    (ix) SEQUENCE DESCRIPTION:SEQ ID NO:6:
151
152    TGTATTTTAG    GGTCTACTC        19
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RAW SEQUENCE LISTING
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153
154     (2) INFORMATION FOR SEQ ID NO:7:
155
156     (i) SEQUENCE CHARACTERISTICS:
157     (A) LENGTH:19 base pairs
158     (B) TYPE:nucleic acid
159     (C) STRANDEDNESS:single
160     (D) TOPOLOGY:linear
161
162     (ii) MOLECULE TYPE: mRNA
163
164     (iii) HYPOTHETICAL: YES
165
166     (ix) SEQUENCE DESCRIPTION:SEQ ID NO:7:
167
168     UGCUCUCUAA    GGUAAAUAU        19
169
170
171     (2) INFORMATION FOR SEQ ID NO:8:
172
173     (i) SEQUENCE CHARACTERISTICS:
174     (A) LENGTH:19 base pairs
175     (B) TYPE:nucleic acid
176     (C) STRANDEDNESS:single
177     (D) TOPOLOGY:linear
178
179     (ii) MOLECULE TYPE: mRNA
180
181     (iii) HYPOTHETICAL: YES
182
183     (ix) SEQUENCE DESCRIPTION:SEQ ID NO:8:
184
185     UGUAUUUUAG    GGUCUACUC        19
186
187
188     (2) INFORMATION FOR SEQ ID NO:9:
189
190     (i) SEQUENCE CHARACTERISTICS:
191     (A) LENGTH:20 base pairs
192     (B) TYPE:nucleic acid
193     (C) STRANDEDNESS:single
194     (D) TOPOLOGY:linear
195
196     (ii) MOLECULE TYPE: mRNA
197
198     (iii) HYPOTHETICAL: YES
199
200     (ix) SEQUENCE DESCRIPTION:SEQ ID NO:9:
201
202     UGCUCUCUAA    GGGUCUACUC       20
203
204
205     (2) INFORMATION FOR SEQ ID NO:10:
```

```
206
207    (i) SEQUENCE CHARACTERISTICS:
208    (A) LENGTH:49 base pairs
209    (B) TYPE:nucleic acid
210    (C) STRANDEDNESS:single
211    (D) TOPOLOGY:linear
212
213    (ii) MOLECULE TYPE: other nucleic acid
214      (A) DESCRIPTION:   /desc = "oligonucleotide"
215
216    (iii) HYPOTHETICAL: YES
217
218    (ix) SEQUENCE DESCRIPTION:SEQ ID NO:10:
219
220    GGAATTCGTC   TCGAGCTCTG   ATCACCACCA   TGGACACGAT   TAACATCGC          49
221
222
223    (2) INFORMATION FOR SEQ ID NO:11:
224
225    (i) SEQUENCE CHARACTERISTICS:
226    (A) LENGTH:55 base pairs
227    (B) TYPE:nucleic acid
228    (C) STRANDEDNESS:single
229    (D) TOPOLOGY:linear
230
231    (ii) MOLECULE TYPE: other nucleic acid
232      (A) DESCRIPTION:   /desc = "oligonucleotide"
233
234    (iii) HYPOTHETICAL: YES
235
236    (ix) SEQUENCE DESCRIPTION:SEQ ID NO:11:
237
238    GACTAGTTGG   TCTCGTCTCT   TTTTTGGAGG   AGTGTCGTTC   TTAGCGATGT   TAATC       55
239
240
241    (2) INFORMATION FOR SEQ ID NO:12:
242
243    (i) SEQUENCE CHARACTERISTICS:
244    (A) LENGTH:46 base pairs
245    (B) TYPE:nucleic acid
246    (C) STRANDEDNESS:single
247    (D) TOPOLOGY:linear
248
249    (ii) MOLECULE TYPE: other nucleic acid
250      (A) DESCRIPTION:   /desc = "oligonucleotide"
251
252    (iii) HYPOTHETICAL: YES
253
254    (ix) SEQUENCE DESCRIPTION:SEQ ID NO:12:
255
256    GGAATTCGTC   TCGGAGAAAG   GTAAAATTCT   CTGACATCGA   ACTGGC             46
257
258
```

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RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/978,634*

DATE: 11/08/98
TIME: 17:14:23

INPUT SET: S29657.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

```
814   (2) INFORMATION FOR SEQ ID NO:42:
815
816   (i) SEQUENCE CHARACTERISTICS:
817   (A) LENGTH:67 base pairs
818   (B) TYPE:nucleic acid
819   (C) STRANDEDNESS:single
820   (D) TOPOLOGY:linear
821
822   (ii) MOLECULE TYPE: other nucleic acid
823     (A) DESCRIPTION:  /desc = "oligonucleotide"
824
825   (iii) HYPOTHETICAL: YES
826
827   (ix) SEQUENCE DESCRIPTION:SEQ ID NO:42:
828
829   CCGGATAATA   CGACTCACTA   TAGGGCGAGC   TCGGTACCCG   GGTCTAGAGT   CGACCTGCAG        60
830
831   GCATGCT      67
832
833
834
```

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/978,634*

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Line	Error	Original Text
38	Wrong Classification	(C)CLASSIFICATION:Not Yet Known